

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

Claims 1-7 (canceled).

Claim 8 (new): An acceleration sensor comprising:

a base plate; and

first and second resonators each including a piezoelectric material and each having electrodes on two opposite main surfaces thereof, each of the first and second resonators having a vibrating section at an intermediate portion of the resonator with respect to the longitudinal direction thereof; wherein

the first and second resonators are attached to opposite sides of the base plate with respect to a direction in which acceleration is applied so as to define a bimorph acceleration-sensor element, one longitudinal end of the acceleration-sensor element is fixed such that the first and second resonators bend in the same direction in response to the acceleration, and changes in frequency or changes in impedance in the first and second resonators caused by the bending of the acceleration-sensor element are differentially detected in order to detect the acceleration, the acceleration-sensor element is bendable about a central bending plane in response to the acceleration, the central bending plane being positioned at a central portion of the base plate with respect to the application direction of acceleration, and the vibrating section of each of the first and second resonators is disposed close to the fixed end of the acceleration-sensor element.

Claim 9 (new): The acceleration sensor according to Claim 8, wherein a height of the first and second resonators in a direction that is substantially perpendicular to the application direction of acceleration is smaller than a height of the base plate in the direction that is substantially perpendicular to the application direction of acceleration.

Claim 10 (new): The acceleration sensor according to Claim 9, wherein the first and second resonators are attached to the opposite sides of the base plate at positions where the first and second resonators are opposed to each other.

Claim 11 (new): The acceleration sensor according to Claim 10, wherein each of the first and second resonators is attached to the central portion of the base plate with respect to a height direction of the base plate, the height direction being substantially perpendicular to the application direction of acceleration.

Claim 12 (new): The acceleration sensor according to Claim 8, wherein the base plate and the first and second resonators are made of at least one material having substantially the same coefficient of thermal expansion.

Claim 13 (new): The acceleration sensor according to Claim 8, wherein opposite outer surfaces of the acceleration-sensor element are respectively fixedly supported by a pair of casing components at said longitudinal end of the acceleration-sensor element, the outer surfaces being opposite to each other with respect to the application direction of acceleration, and open planes defined by the acceleration-sensor element and the casing components are covered with a pair of cover components so that a displacement portion of the acceleration-sensor element, which is bendable in response to the

acceleration, is disposed within an enclosed space, one of the electrodes in each of the first and second resonators is disposed at a free-end side of the resonator and is connected with a common electrode via an extraction electrode provided on the base plate, the common electrode being provided at a fixed-end side of an outer surface of a combination of the casing components and the cover components, the other electrode in the first resonator is disposed at a base-end side of the first resonator, said electrode being connected with a first independent electrode provided at a free-end side of the outer surface of the combination of the casing components and the cover components, said electrode being connected with the first independent electrode via a first extraction electrode provided on one of the casing components, and the other electrode in the second resonator is disposed at a base-end side of the second resonator, said electrode being connected with a second independent electrode provided at the free-end side of the outer surface of the combination of the casing components and the cover components, said electrode being connected with the second independent electrode via a second extraction electrode provided on the other casing component.

Claim 14 (new): The acceleration sensor according to Claim 8, wherein the casing components are provided with a plurality of internal electrodes disposed on upper surfaces of the casing components, the internal electrodes being connected with the electrodes in each of the first and second resonators.